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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/765,962	01/19/2001	Seiichi Aoyagi	112857-246	9153
29175 7.	590 03/30/2004		EXAMINER	
BELL, BOYD & LLOYD, LLC			NOLAN, DANIEL A	
P. O. BOX 1135 CHICAGO, IL 60690-1135			ART UNIT	PAPER NUMBER
,			2654	41
		DATE MAILED: 03/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/765,962	AOYAGI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniel A. Nolan	2654				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 28 J	<u>uly 2003</u> .					
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 12-29 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>18-23</u> is/are allowed.						
6)⊠ Claim(s) <u>12-17 and 24-29</u> is/are rejected.						
7) Claim(s) is/are objected to.	oloation requirement					
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.					
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accep		miner.				
Applicant may not request that any objection to the						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority documents 	have been received.					
2. Certified copies of the priority documents	have been received in Applicati	on No				
 Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of 	eau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic	•					
a) ☐ The translation of the foreign language pro- 15)☐ Acknowledgment is made of a claim for domestic	visional application has been rec	eived.				
Attachment(s)	o priority under 33 O.S.C. 88 120	anurul (21.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) D Notice of Informal I	/ (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01 March 2004 has been entered.

Response to Amendment

3. The filing of 01 March 2004 was applied with the following effect that the claims were changed as indicated and the objections withdrawn as satisfied.

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Response to Arguments

4. Applicant's arguments filed 01 March 2003 have been fully considered but they are not persuasive.

In response to applicant's argument that there is no suggestion to combine the references (page 8 lines 4-7), the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the cited practical application would be not only sufficient for individuals of ordinary skill in the art but it would be essential that such artisans would recognize that a method/teaching from one situation be applied to others.

In response to applicant's argument that Herz et al^{'237} is applied to a dissimilar technological area (last line page 8 to 5th line page 9), the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). The issue is the associations from the occurrence of words in content, features held in common by the prior art of reference and the instant application, as cited.

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With response to the further argument that neither reference provide motivation to combine (last 2 lines page), in applying the clear error standard the Federal Circuit upheld the lower court's decision that one skilled in the art would be motivated to combine two prior art inventions as part of the problem-solving skill required of an artisan with the observation that, "A court or examiner may find the motivation to combine references in the nature of the problem to be solved." See Ruiz v. A.B. Chance Co. 03-1333, 29 Jan 2004, USPQ2D 1686.

It must be noted that the addition of features to the claims led to the substitution of references to Herz et al⁹³⁹ for Herz et al²³⁷ to include the added features since the respective features of the prior art that was applied to the application were otherwise essentially similar. This exchange was made only to encompass the additional limits added to the claim and not in reaction to the arguments against the maintained claims.

Claim Rejections - 35 USC § 103

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Cox, Jr. & Herz et al 939

- 6. Claims 12-14 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox, Jr. in view of Herz et al^{'939} (U.S. Patent 5,754,939 A).
- 7. Regarding claims 12 and 24, in *providing a linguistically competent dialogue with* a computerized service representative, Cox, Jr. reads on every feature of the information processing apparatus for collecting information regarding a user in the immediate application as follows:
- Cox, Jr. (the "utterance recognition" of column 3 line 60) reads on the feature of a speech recognizing means for recognizing speeches of the user;
- Cox, Jr. (14 in figure 1) reads on the feature of a dialog sentence creating means for creating a dialog sentence (column 2 lines 32-33) to exchange a dialog with the user (column 4 lines 33-35) based on a result of the speech recognition performed by said speech recognizing means;
- Cox, Jr. (column 4 lines 14-16) reads on the feature of a collecting means for collecting the user information based on the speech recognition result.

Where <u>Cox</u>, <u>Jr</u>. is silent on the matter of accounting or statistical operations, <u>Herz</u> <u>et al⁹³⁹</u>, with the invention for generation of user profiles for a system for customized electronic identification of desirable objects reads on the feature that counts a number

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of times the same topic (column 12 lines 64-67) of claim 12 – as well as reading on the number of appearances that the same topic is included in the speech of the user of claim 24 – is included in the speech of the user based on the speech recognition result and collects (column 12 lines 38-45) the user information based on the counted number.

Herz et al⁹³⁹ further teaches alternatives (column 13 lines 25-27), making the simple count obvious as the simplest unweighted limit or *threshold*. As such, the requirement for such a practical application of collecting preferences and matching to service would have made it obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method/teachings of Herz et al⁹³⁹ to the device/method of Cox, Jr. so as to assist customers in making selections.

With regard for the added limitations of claim 24, <u>Cox, Jr.</u> does not mention thresholds. <u>Herz et al</u>⁹³⁹ reads on the feature of a speech threshold (as the score of column 12 line 65 – column 13 line 2) including a designated number of appearances of a topic in the speech of a user (as contributed by column 12 line 65) and the further feature that determines whether the counted number of appearances of the topic is equal to or greater than the speech threshold (the score, where the accumulated score is detailed in column 13 lines 1-27) and collects the user information (see <u>Cox, Jr.</u>, column 4 lines 14-16) when the counted number of appearances of the topic is equal to or greater than the speech threshold.

Because relative selection criteria requires postponing the decision until all materials are analyzed, it would have been obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method and/or

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teachings of $\underline{\text{Herz et } ai^{939}}$ to the device/method of $\underline{\text{Cox}}$, $\underline{\text{Jr}}$ to make the selection at the earliest indication that the criteria would be met.

- 8. Regarding claims 13 and 25; the claims are set forth with the same features as claims 12 and 24, respectively. Cox, Jr. (figure 1 items 10-12) reads on the feature of storing the user information.
- 9. Regarding claims 14 and 26; the claims are set forth with the same features as claims 12 and 24, respectively. Cox, Jr. (figure 1 item 14) reads on the feature that said dialog sentence creating means outputs the dialog sentence in the form of a text or synthesized sounds.

Cox, Jr. & Von Kohorn

- 10. Claims 15-16 and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox, Jr. in view of Von Kohorn (U.S. Patent 5,916,024 A).
- 11. Regarding claim 15 and 27; the claims are set forth with the same features as claims 12 and 24, respectively. Cox, Jr. does not deal with the *frequency of words in speech*. Von Kohorn (332 figure 25) reads on the feature that *collects the user information* (column 41 line 65) based on an appearance frequency of a word (column 42 line 65) contained in the speech recognition result (column 18 lines 30-40).

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It would have been obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method/teachings of <u>Von Kohorn</u> to the device/method of <u>Cox, Jr.</u> so as to apply the tools developed for amusement gaming to further the marketing interests of those products that sponsors such gaming programs.

12. Regarding claim 16 and 28; the claims are set forth with the same features as claims 12 and 24, respectively. Cox, Jr. does not deal with the *broader terms for a word*. Von Kohorn (column 42 lines 30-32) reads on the feature that *said collecting means collects the user information based on a broader term of a word contained in the speech recognition result*, which would have been obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method and/or teachings of Von Kohorn to the device/method of Cox, Jr. so as to recognize the use of general terms in specifying equivalent or like items.

Cox, Jr. & Hammons et al

- 13. Claims 17 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox, Jr. in view of Hammons et al (U.S. Patent 6,477,509 B1).
- 14. Regarding claims 17 and 29; the claims are set forth with the same features as claims 12 and 24, respectively. While Cox, Jr. maintains a record of the products in use by the customer; it does not further maintain *information indicating interests or taste*.

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Hammons et al (42 in figure 2) reads on the feature that the user information is information indicating interests or tastes of the user, which would have made it obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method/teachings of Hammons et al to the device and/or method of Cox, Jr. so as to improve marketing by presenting material of consumer interest.

Allowable Subject Matter

- 15. Claims 18-23 are allowed.
- 16. The following is a statement of reasons for the indication of allowable subject matter:
- The present invention is directed to extracting survey information from conversation.
- Claim 18 identifies the distinct feature that "counts a <u>time of speeches on the same</u>
 topic based on the speech recognition result, and collects the user information
 based on a counted value".
- The closest prior art of <u>Cox</u>, <u>Jr</u>. and <u>Hammons et al</u> discloses collecting specific information determined in response to direct queries on the subject, but fails to anticipate or render the above underlined limitations obvious.

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Conclusion

Any inquiry concerning this communication or earlier communications from the 17. Examiner should be directed to Daniel A. Nolan at telephone (703) 305-1368 whose normal business hours are Mon, Tue, Thu & Fri, from 7 AM to 5 PM.

If attempts to contact the examiner by telephone are unsuccessful, supervisor Richemond Dorvil can be reached at (703)305-9645.

The fax phone number for Technology Center 2600 is (703)872-9314. Label informal and draft communications as "DRAFT" or "PROPOSED", & designate formal communications as "EXPEDITED PROCEDURE". Formal response to this action may be faxed according to the above instructions,

or mailed to:

P.O. Box 1450

Alexandria, VA 22313-1450

or hand-deliver to: Crystal Park 2,

2121 Crystal Drive, Arlington, VA,

Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Technology Center 2600 Customer Service Office at telephone number (703) 306-0377.

DAN/d

March 19, 2004

Daniel A. Nolan

Examiner

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DANIEL NOLAN PATENT EXAMINER